

Release Notes for Jabber SDK

Cisco Unified Communications System Release 11.0 EAP1 Voice and Video Version 4.0.0 for Web

Release date: Jul 8, 2015.

SDK enhancements and significant changes in this release

- Firewall Traversal over Expressway
- Single Sign On
- Service discovery
- Ringer device selection
- Volume control
- Custom ringtones

Sample Application Changes

Changed UI to demonstrate new features, such as service discovery, SSO, custom ringtones, etc.

CWIC API Changes

In this section, newly added, changed and removed API functions and properties in 11.0 release will be listed. For more information about individual functions and properties please see *API Reference*. To view the *API Reference for Jabber SDK*, after you unzip the SDK package, go to docs\api\files.html.

The following cwic methods are added for new sign in features support:

Element	Description
manualSignIn()	Initiates manual sign in. Alias for registerPhone()
startDiscovery()	Initiates sign in based on service discovery. Supports credentials based or SSO sign in. Firewall traversal is transparently supported through this API.
cancelSSO()	Cancels an ongoing SSO process.
resetData()	Clears cached user data.

Element	Description
signOut()	Preferred alternative to unregisterPhone

The following properties are added to settings object (Init API):

Property	Description
serviceDiscovery	Flag to note whether the service discovery based sign in will be used. Defaults to true.
redirectUri	Redirect URI defined on CUCM
emailRequired	Sign in lifecycle callback
credentialsRequired	Sign in lifecycle callback
signedIn	Sign in lifecycle callback

The following cwic methods are added for new features related to multimedia services:

Element	Description
setRingerDevice()	Sets ringer device
setSpeakerVolume()	Sets speaker volume. Supported on Windows platform only.
setRingerVolume()	Sets ringer volume. Supported on Windows platform only.
setMicrophoneVolume()	Sets microphone volume. Supported on Windows platform only.
getMultimediaDeviceVolume()	Gets volume for particular device. Supported on Windows platform only.
setRingtone()	Sets ringtone. Supported on Windows platform only.

Element	Description
setPlayRingerOnAllDevices()	Sets all capable devices as ringers. Supported on Windows platform only.
setExternalWindowShowControls()	Controls whether a overlaid controls are shown in external video window

The following cwic events are added:

Event	Description
ssoNavigateTo.cwic	Delivers URL to which application should redirect to get the SSO token.
invalidCertificate.cwic	Signals that invalid certificate is detected
callTransferInProgress.cwic	Signals that call transfer is in progress and delivers method for completing it.
ringtoneChange.cwic	Ringtone changed
multimediaCapabilities.cwic	Signals when multimedia services are enabled or disabled
ringtonesListAvailable.cwic	Signals when ringtones list is available and delivers the list of available ringtones

The following cwic methods are removed or changed:

Element	Change Type	Description
enableCertValidation	Removed	Explicit disabling or enabling of certificate validation is not supported in the 11.0 release. Certificate validation is always performed. If certificate validation results with an invalid certificate, “invalidCertificate.cwic” event is triggered. Developers have an option to present more information about the certificate and failure
disableCertValidation	Removed	

Element	Change Type	Description
		<p>reason to the user and also an option to accept or reject a validated certificate.</p> <p>See “Certificate Validation Feature Overview” chapter in Getting Started Guide for more information.</p>
transferCall (part of update conversation)		<p>The new call transfer behavior is the same as call transfer in Cisco Jabber or Cisco desk phones. To perform attended transfer, within an active call, call transfer API should be called with target number as a parameter. Previous call transfer API accepts the call id of an already established call. When the target is answered (or during the ringing), the SDK offers an API to complete or to cancel the transfer.</p> <p>See API docs and sample app for more information.</p>

The following cwic properties are removed or changed:

Element	Property	Change Type	Description
settings object (init)	mediaPortSplitting	Removed	Unsupported
settings object (init)	encodeBase64	Removed	Used only for authentication over node.js component which is not supported in 11.0 release.
settings object (init)	node	Removed	Authentication based on Node.js component is unsupported in 11.0 release.
device object	lines	Removed	This property was populated only with active line. Will be changed to activeLine property in a

Element	Property	Change Type	Description
			future. Not yet implemented.
device object	model	Removed	Use modelDescription property instead.
line object	registered	Removed	Not needed. There is not planned to be the list of lines, only an active line which is always registered.
line object	externalNumber	Removed	
line object	label	Removed	Use name property instead.
<u>localParticipant object</u>	externalNumber	Removed	Use directoryNumber or translatedNumber instead.
call object	callEvent	Removed	A new API is planned for checking failures during transferring or conferencing calls.
call object	callType	Change	“None, Incoming, Outgoing, Forwarded” changed to “Placed, Received, Missed” set of values
call object	id	Removed	This property is duplicate of callid property.
call object	state	Removed	This property is duplicate of state property.
call object	maxParticipants	Removed	A new capability canAddParticipant is planned. Not yet implemented.
call object	calledPartyDirectoryNumber	Removed	Use participants and localParticipant instead.
call object	calledPartyName	Removed	Use participants and

Element	Property	Change Type	Description
			localParticipant instead.
call object	callingPartyDirectoryNumber	Removed	Use participants and localParticipant instead.
call object	callingPartyName	Removed	Use participants and localParticipant instead.
call object	callingPartyNumber	Removed	Use participants and localParticipant instead.
call object	calledPartyNumber	Removed	Use participants and localParticipant instead.
call object	lineld	Removed	lineld property was never implemented.
call object	mediaState	Removed	mediaState property was never implemented.
call object	numericState	Removed	use callState instead.
args (registerPhone)	authenticate	Removed	This property is related to authentication based on Node.js component, which is not supported.
args (registerPhone)	useCcmcip	Removed	There is no use case for this property.
about object	plugin.version.ecc	Removed	
system event		Changed	Removed "eFetchingDeviceConfig", "eRecoveryPending", "eAwaitingIpAddress", "eConnectedButNoDeviceReady" values.

Download the Extension

To get the Cisco Web Communicator extension for Chrome, go to <https://chrome.google.com/webstore/detail/cisco-web-communicator/ppblmlcmhfnfflbkbinnhacecaankdh>

Backward Compatibility

This release of the SDK brakes backward compatibility with the previous 3.1.2 version of the browser add-on and with `cwic.js`. See API changes section for more information.

Ports and Protocols

The Cisco Web Communicator add-on uses the following ports to communicate with the Cisco infrastructure and remote parties:

- TFTP Port 69 is used to download CUCM configuration file and Dial Rules.
- RTP Audio & Video (Transmit/Receive) uses a port in each direction that defaults to a port in the range 16384-32767.
- RTCP (control info for media) usually uses the RTP port number +1.

The Cisco Web Communicator add-on also makes the following outbound-only connections:

- HTTPS Port 8443 - Used to download the phone devices available to the user from CUCM
- HTTP Port 6970 – (Optional) Used to download CUCM configuration file and Dial Rules.
- QBE Port 2748 - Used for call control in CTI / Deskphone Control mode.
- SIP Port 5060 – Used for signaling in SoftPhone mode (In most cases, this is a TCP connection)
- SIP Port 5061 – Used for encrypted signaling when application is connected to Cisco Expressway server from the outside of corporate network.

Caveats

Known problems (bugs) are graded according to severity level. These release notes contain descriptions of the following:

- All severity level 1 or 2 bugs
- Significant severity level 3 and lower bugs

Cisco Bug Toolkit

You can search for problems by using the Cisco Software Bug Search Tool. You must be a registered Cisco.com user to access this online information.

To use the Bug Search Tool, follow these steps.

- Step 1** To access the Bug Search Tool, go to: <https://tools.cisco.com/bugsearch/>
- Step 2** Log in with your Cisco.com user ID and password.
- Step 3** To look for information about a specific problem, enter the bug ID number in the Search For field, then press Enter.

Open Caveats

The following table lists the defects that are open for Jabber SDK Cisco Unified Communications System Release 11.0 EAP 1 Voice and Video Version 4.0.0 for Web.

CDETS	Headline
CSCuv22192	Jabber SDK cannot sign in after changing authentication mechanism
CSCuv22165	Single Sign On not working in DeskPhone mode
CSCuv22176	Call transfer doesn't work correctly in DeskPhone mode
CSCuv22319	Jabber SDK does not recover after sleep/hibernate
CSCuv22274	Jabber SDK doesn't recover after network is disconnected